

# INSTRUCTIONS FOR FIXING THE 130XE COMPUTER WHEN THE HIGH SPEED TRANSFER PORTION OF THE HAPPY DIAGNOSTIC FAILS.

ATARI added some capacitors to the 130XE, probably to reduce rf interference. Unfortunately this also slows down the serial I/O line and causes errors when transferring data at high speeds.

There is a fairly easy fix for this. Remove the four screws from the bottom of the computer and lift off the cover. Look at the connector marked peripheral, where the drive cable plugs in towards the back. You should see some capacitors soldered from each pin to the shiny metal ground plane on the circuit board. The culprit is the one going to pin 5, which is the data out line. This pin is the third one from the right on the wider row (looking at it with the front of the computer towards you). Cut out either or both ends of the capacitor. Do not cut the pin from the connector to the circuit board. NOTE: The manual with the 130XE shows the I/O connector and the pin assignments.

If you still have a problem, read the suggestions in the hi speed xfer diagnostic, also try to connect just the 1 HAPPY DRIVE to the personal computer alone, with no other peripherals connected. If all else fails contact HAPPY COMPUTERS (408) 779-3830.

Many 130XE owners have called us and per our recommendation made this change and achieved the desired result. However, HAPPY COMPUTERS accepts no responsibility for changes done by you inside your computer, and note that this may void your warranty.

~~NOTE: After this capacitor is removed, the output circuitry from the serial I/O port becomes identical to earlier ATARI computers.~~